



TITLE:

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AUTHOR(S):

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CITATION:

表紙・目次. 数理解析研究所講究録 2004, 1388

ISSUE DATE:

2004-07

URL:

<http://hdl.handle.net/2433/25801>

RIGHT:

数理解析研究所講究録 1388

# 調和解析学と非線形偏微分方程式

京都大学数理解析研究所

2004年7月

# Workshop on Harmonic Analysis and Nonlinear Partial Differential Equations

Research Institute for Mathematical Sciences, Kyoto University  
Room No. 420

Monday, July 8, 13:30 — Wednesday, July 10, 12:05, 2002

Organizer: Masao Yamazaki (Waseda Univ.)  
e-mail: masao.yamazaki@waseda.jp

Monday, July 8

- 13:30–14:30 Eiichi Nakai (Osaka Kyouiku Univ.)  
Hardy Spaces and Generalized Fractional Integrals
- 14:45–15:30 Reika Fukuizumi (Tohoku Univ.)  
Stability of Standing Waves for Nonlinear Schrödinger  
Equations with Double Power Nonlinearity
- 15:45–17:00 Christopher D. Sogge (Johns Hopkins Univ.)  
Almost Global and Global Existence for Nonlinear Wave  
Equations Outside of Obstacles

Tuesday, July 9

- 9:45–10:45 Takuya Sobukawa (Okayama Univ.)  
The Relation between the Extrapolation Estimates
- 11:00–12:00 Takahiro Mizuhara (Yamagata Univ.)  
Some Factorization Theorem for Hardy Spaces  
and Commutators on Morrey Spaces
- 13:30–14:30 Hiroyuki Chihara (Tohoku Univ.)  
The Initial Value Problem for Schrödinger Equations  
on the Torus
- 14:45–15:30 Shuji Machihara (Shimane Univ.)  
Small Global Solutions for the Nonlinear Dirac Equation
- 15:45–17:00 Christopher D. Sogge (Johns Hopkins Univ.)  
Eigenfunctions and Harmonic Analysis
- 18:30– Banquet (at Co-Op Inn Kyoto)  
<http://www2.univcoop.or.jp/inn>

Wednesday, July 10

9:30–10:15 Okihiro Sawada (Hokkaido Univ.)

On Time-Local Solvability of the Navier-Stokes Equations  
in Besov Spaces

10:25–11:10 Yuko Enomoto (Waseda Univ.)

$L_p$ - $L_q$  Estimates of the Oseen Semigroup in  
 $n$ -Dimensional Exterior Domain and its Application

11:20–12:05 Jihoon Lee (Seoul National Univ.)

On the Subdissipative Navier-Stokes Equations

調和解析学と非線形偏微分方程式  
Harmonic Analysis and Nonlinear Partial Differential Equations  
研究集会報告集

2002年7月8日～7月10日  
研究代表者 山崎 昌男 (Masao Yamazaki)

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